

FLEXIBLE SEAL ASSEMBLY BETWEEN GAS TURBINE
COMPONENTS AND METHODS OF INSTALLATION

ABSTRACT OF THE DISCLOSURE

[0016] A preloaded spring assembly is provided in a recess in each shroud in axial opposition to an aft facing sealing surface of a turbine nozzle retaining ring. Each spring assembly includes a spring, preferably a bellows type spring, with a plate mounted on one side and a sealing surface on the side of the plate remote from the spring. The sealing surface may be an abradable coating or a honeycomb seal. The seal assembly is maintained preloaded by a wrap which upon reaching turbine operating temperature disintegrates, enabling the spring to load the sealing surface against the retaining ring surface to prevent or minimize air leakage from outside the nozzle retainer ring into the hot gas path.